SIEMENS

Data sheet



SCALANCE XC216 manageable Layer 2 IE switch; IEC 62443-4-2 certified; 16X 10/100 Mbit/s RJ45 ports; 1x console port, diagnostics LED; redundant power supply; temperature range -40 °C to +70 °C; assembly: DIN rail/S7 mounting rail/wall Office redundancy functions features (RSTP, VLAN,...); PROFINET IO device; Ethernet/IP-compliant; C-plug slot;

product type designation	SCALANCE XC216	
transfer rate		
transfer rate	10 Mbit/s, 100 Mbit/s	
interfaces / for communication / maximum configuration for modular devices		
number of electrical ports / maximum	16	
interfaces / for communication / integrated		
number of electrical connections		
 for network components or terminal equipment 	16; RJ45	
number of 10/100 Mbit/s RJ45 ports / integrated		
with securing collar	16	
interfaces / other		
number of electrical connections		
 for operator console 	1	
for signaling contact	1	
for power supply	1	
type of electrical connection		
for operator console	RJ11	
 for signaling contact 	2-pole terminal block	
for power supply	4-pole terminal block	
design of the removable storage		
• C-PLUG	Yes	
signal inputs/outputs		
operating voltage / of the signaling contacts		
at DC / rated value	24 V	
operational current / of the signaling contacts		
at DC / maximum	0.1 A	
supply voltage, current consumption, power loss		
product component / connection for redundant voltage supply	Yes	
type of voltage / 1 / of the supply voltage	DC	
supply voltage / 1 / rated value	24 V	
power loss [W] / 1 / rated value	6.6 W	
 consumed current / 1 / at rated supply voltage / maximum 	0.275 A	
supply voltage / 1 / rated value	9.6 31.2 V	
consumed current / 1 / maximum	0.55 A	
 type of electrical connection / 1 / for power supply 	4-pole terminal block	
 product component / 1 / fusing at power supply input 	Yes	
fuse protection type / 1 / at input for supply voltage	2.5 A / 125 V	
ambient conditions		
ambient temperature		
during operation	-40 +70 °C	

during storage	-40 +85 °C
during transport	-40 +85 °C
relative humidity	
at 25 °C / without condensation / during operation /	95 %
maximum protection class IP	IP20
design, dimensions and weights	IF20
	- company
design	compact
width	120 mm
height	147 mm
depth	125 mm
net weight	0.8 kg
material / of the enclosure	Polycarbonate (PC-GF10) / pressure die cast aluminum
fastening method	· ·
35 mm top hat DIN rail mounting	Yes
• wall mounting	Yes
S7-300 rail mounting	Yes
S7-1500 rail mounting	Yes
product features, product functions, product components / ger	
cascading in the case of a redundant ring / at reconfiguration time of <\~0.3\~s	50
cascading in cases of star topology	any (depending only on signal propagation time)
product function / QoS according to DSCP	Yes
product feature	
 Cut Through switching method 	No
Store & Forward switching method	Yes
product functions / management, configuration, engineering	
product function	
• CLI	Yes
 web-based management 	Yes
 MIB support 	Yes
TRAPs via email	Yes
configuration with STEP 7	Yes
• RMON	Yes
SMTP server	No
 port mirroring 	Yes
 multiport mirroring 	Yes
• CoS	Yes
PROFINET IO diagnosis	Yes
PROFINET conformity class	В
product function / switch-managed	Yes
telegram length / for Ethernet / maximum	1632 byte
protocol / is supported	
• Telnet	Yes
• HTTP	Yes
• HTTPS	Yes
• TFTP	Yes
• BOOTP	No
• GMRP	Yes
• DCP	Yes
• LLDP	Yes
• EtherNet/IP	Yes
• SNMP v1	Yes
• SNMP v2	Yes
• SNMP v3	Yes
• IGMP (snooping/querier)	Yes
identification & maintenance function	
I&M0 - device-specific information	Yes
I&M1 - higher level designation/location designation	Yes
product function	
is supported / identification link	Yes; according to IEC 61406-1:2022
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product function • port diagnostics • statistics Packet Size • statistics packet type • error statistics • SysLog product functions / VLAN product function • VLAN - port based • VLAN - protocol-based No	
port diagnostics statistics Packet Size statistics packet type statistics packet type error statistics Yes SysLog product functions / VLAN product function VLAN - port based Yes	
statistics Packet Size statistics packet type statistics packet type error statistics Yes SysLog Yes product functions / VLAN product function VLAN - port based Yes	
statistics packet type error statistics Yes SysLog Yes product functions / VLAN product function VLAN - port based Yes	
error statistics Yes SysLog Yes product functions / VLAN product function VLAN - port based Yes	
SysLog Product functions / VLAN product function VLAN - port based Yes	-
product functions / VLAN product function • VLAN - port based Yes	
product function • VLAN - port based Yes	
VLAN - port based Yes	
·	
10	
VLAN - IP-based No	
number of VLANs / maximum 257	
number of VLANs - dynamic / maximum 257	
number of VLANs / at ring redundancy (HRP; MRP; standby link) 257	
protocol / is supported / GVRP Yes	
product functions / DHCP	
product function	
• DHCP server Yes	
• DHCP client Yes	
DHCP Option 82 Yes	
DHCP Option 66 Yes	
• DHCP Option 67 Yes	
product functions / redundancy	
product function	
of the PROFINET IO device / is supported / PROFINET system redundancy Yes	
• ring redundancy Yes	
High Speed Redundancy Protocol (HRP) Yes	
high speed redundancy protocol (HRP) with redundancy Yes	
manager ◆ high speed redundancy protocol (HRP) with standby Yes	
redundancy	
protocol / is supported / Media Redundancy Protocol (MRP) Yes	
product function ■ media redundancy protocol (MRP) with redundancy manager Yes	
Media Redundancy Protocol Interconnection (MRP-I) Yes	
of the PROFINET IO device / is supported / H-Sync forwarding Yes	
redundancy procedure STP Yes	
redundancy procedure RSTP Yes	
• redundancy procedure RSTP+ Yes	
• redundancy procedure MSTP Yes	
Parallel Redundancy Protocol (PRP)/operation in the PRP-network Yes	
 Parallel Redundancy Protocol (PRP)/Redundant Network Access (RNA) 	
• passive listening Yes	
protocol / is supported	
• LACP Yes	
product functions / security	
product function	
• IEEE 802.1x (radius) Yes	
broadcast/multicast/unicast limiter Yes	
broadcast blocking Yes	
protocol / is supported	
• SSH Yes	
• SSL Yes	
product functions / time	
product function	
SICLOCK support Yes	

NTP client	Voc	
NTP-client SNTP client	Yes	
SNTP client protocol / is supported.	Yes	
protocol / is supported • NTP	Yes	
• SNTP	Yes	
system modification during operation	160	
product function / configuration in RUN via CiR/H-CiR	Yes	
standards, specifications, approvals	100	
standards, specifications, approvals		
• for FM	FM19US0167X	
IT security for industrial automation systems / according to IEC	Yes	
62443-4-2:2019	155	
MTBF	48 a	
reference code		
 according to IEC 81346-2 	KF	
• according to IEC 81346-2:2019	KFE	
standards, specifications, approvals / CE		
certificate of suitability / CE marking	Yes	
product conformity / according to EMC-guideline	2014/30/EU	
standard		
• for EMC interference emission	EN 61000-6-4, EN 50121-4	
• for immunity to EMC	EN 61000-6-2, EN 50121-4	
certificate of suitability / RoHS conformity	Yes; 2011/65/EU	
standards, specifications, approvals / hazardous environments		
certificate of suitability	V. 50 0000 0 50 0000 10	
• ATEX	Yes; EN 60079-0, EN 60079-15	
• for ATEX / as marking	II 3 G Ex nA II T4 Gc	
• for ATEX / as certificate	KEMA 07ATEX0145 X	
• IECEX	Yes; IEC 60079-0, IEC 60079-15	
• for IECEx / as marking	Ex nA II T4 Gc	
for IECEx / as certificate CCC / for hazardous zone according to GR standard	IECEX DEK 14.0025X	
 CCC / for hazardous zone according to GB standard CCC / for hazardous zone according to GB standard / as 	Yes; GB3836.1, GB3836.8 Ex nA IIC T4 Gc	
marking	LATIATIO 14 QU	
for cULus HazLoc / as marking	CL1, DIV2, Group A,B,C,D T4, CL1, Zone 2, Group IIC, T4	
• for cULus HazLoc / as File Nr.	E240480 (NWHP, NWHP7)	
 FM registration 	Yes; FM class 3600:2011, FM class 3611:2004, FM class 3810:2005,	
	ANSI/ISA-61010-1:2004	
• for FM / as marking	CL1, DIV2, group A,B,C,D T4, CL1, Zone 2, group IIC, T4 Ta: -40 °C +70 °C	
for FM / as certificate	FM16US0205X	
standards, specifications, approvals / other		
certificate of suitability	V	
• railway application in accordance with EN 50121-4	Yes	
Regulatory Compliance Mark (RCM) for III	Yes	
• for UL 61010-2-201 / as File Nr.	E85972 (NRAQ, NRAQ7)	
• for UL 60950-1 / as File Nr.	E115352 (NWGQ, NWGQ7)	
EAC approval standards specifications approvals / marino classification	Yes	
standards, specifications, approvals / marine classification		
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS)	Yes	
French marine classification society (BV)	Yes	
DNV GL	Yes	
Korean Register of Shipping (KRS)	Yes	
Lloyds Register of Shipping (LRS)	Yes	
Nippon Kaiji Kyokai (NK)	Yes	
Polski Rejestr Statkow (PRS)	Yes	
Royal Institution of Naval Architects (RINA)	Yes	
standards, specifications, approvals / Environmental Product Declaration		
Environmental Product Declaration	Yes	
Global Warming Potential [CO2 eq]		
• total	441.1 kg	

during manufacturing
during operation
after end of life
0.57 kg

http://www.siemens.com/cax

Yes

product functions / general

Warranty period 5 a

accessories

product extension / optional / C-PLUG

• to website: CAx-Download-Manager

further information / internet links

internet link

to web page: selection aid TIA Selection Tool
 to website: Industrial communication
 http://www.siemens.com/tia-selection-tool
 http://www.siemens.com/simatic-net

• to website: Industry Mall https://mall.industry.siemens.com

• to website: Information and Download Center http://www.siemens.com/industry/infocenter

• to website: Selection guide for cables and connectors https://sie.ag/2QdlxcP

• to website: Image database http://automation.siemens.com/bilddb

• to website: Industry Online Support https://support.industry.siemens.com

security information

security information

Siemens provides products and solutions with industrial security functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial security concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial security measures that may be implemented, please visit

https://www.siemens.com/industrialsecurity. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Security RSS Feed under https://www.siemens.com/cert. (V4.6)

Approvals / Certificates

General Product Approval

Manufacturer Declaration









Miscellaneous

General Product Approval

For use in hazardous locations

Declaration of Conformity



IECEx



<u>FM</u>

CCC-Ex



Marine / Shipping









NK / Nippon Kaiji Kyokai



Marine / Shipping

Environment





Confirmation EPD Typ II/III (with life cylce assessment)

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